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**Material Safety Data Sheet**

MSDS Form No. : 8808145
Item No. : 8808145, 8888468

**** MATERIAL SAFETY DATA SHEET ****

BATTERY CLEANER AND LEAK DETECTOR TM 2050

Part # 8808145

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: BATTERY CLEANER AND LEAK DETECTOR TM 2050

Product CAS:

Product Code:

Synonyms: 8808145; 8888468; BATTERY CLEANER AND LEAK DETECTOR TM 2050

Company Identification:

Name: Aerosol Systems, Inc.

Address: 9150 Valley View Road

Address:

City: Macedonia State: OH Zip: 44056

For information, call: (216) 467-4195

Emergency Number:

Emergency Agency:

Number:

MSDS Creation Date: 08/16/1994

Supersedes Date:

Miscellaneous:

CAS #: N/A

CHEMICAL NAME: N/A

BRIEF DESCRIPTION: N/A

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

Chemical Name	CAS	MIN	MAX
2-BUTOXYETHANOL	111-76-2	10	10
ISOBUTANE	75-28-5	20	20
NON-HAZARDOUS	(none)	10	10
SODIUM BICARBONATE	144-55-8	10	10

TRIETHANOLAMINE	102-71-6	10	10
WATER	7732-18-5	80	80

Miscellaneous:**EXPOSURE LIMITS:**

ISOBUTANE: ACGIH TLV - 800

*2-BUTOXYETHANOL: OSHA PEL - 25 SKIN. ACGIH TLV - 25 SKIN

ALL CHEMICAL COMPOUNDS MARKED WITH AN ASTERISK () ARE TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372. YOU MUST NOTIFY EACH PERSON TO WHOM THIS MIXTURE OR TRADE NAME PRODUCT IS SOLD. THIS STATEMENT MUST REMAIN A PART OF THIS MATERIAL SAFETY DATA SHEET.

Lbs of VOC per Gallon Coating (minus water):

Coating Density (lbs/gal):

Solvent Density (lbs/gal):

Percent Solvent (volume):

Percent Solids (volume):

Percent Water (volume):

****** SECTION 3 - HAZARDS IDENTIFICATION ******

NFPA: Health: 2 Fire: 4 Reactivity: 0 Other:

HMIS: Health: 2 Fire: 4 Reactivity: 0 Special Protection:

POTENTIAL HEALTH EFFECTS**Target Organs:****Eye:**

ACUTE AND CHRONIC: EYE IRRITANT. 2-BUTOXYETHANOL MAY CAUSE CORNEAL INJURY.

Skin:

A ROUTE OF ENTRY. ACUTE AND CHRONIC: WILL CAUSE DERATTING OF SKIN. EFFECTS ARE REVERSIBLE.

SKIN IRRITANT. 2-BUTOXYETHANOL MAY BE ABSORBED THROUGH THE SKIN WITH TOXIC EFFECTS. SIGNS AND SYMPTOMS: REDNESS.

Ingestion:

A ROUTE OF ENTRY. ACUTE AND CHRONIC: ASPIRATION HAZARD IF SWALLOWED. SIGNS AND SYMPTOMS: VOMITING.

Inhalation:

A ROUTE OF ENTRY. ACUTE AND CHRONIC: MAY CAUSE DIZZINESS OR NARCOSIS IN HIGH CONCENTRATIONS.
LONG TERM EXPOSURE (YEARS) TO HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LUNG, LIVER OR KIDNEY
DAMAGE. THE SOLVENT LISTED HAVE BEEN REPORTED TO AFFECT THE CENTRAL NERVOUS SYSTEM. MAY
IRRITATE RESPIRATORY TRACT. 2-BUTOXYETHANOL MAY CAUSE INJURY AND BLOOD ABNORMALITIES AND MAY
CAUSE DAMAGE TO SPLEEN AND TESTES. SIGNS AND SYMPTOMS: DIFFICULTY IN BREATHING.
MEDICAL
CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: HEART DISEASE; RESPIRATORY DISORDERS.

Miscellaneous:

**** SECTION 4 - FIRST AID MEASURES ****

Eye:

WASH EYES WITH WATER.

Skin:

WASH SKIN WITH WATER.

Ingestion:

DO NOT INDUCE VOMITING. GASTRIC LAVAGE.

Inhalation:

GIVE OXYGEN.

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

Unusual Fire and Explosion Hazards:

HEATED CANS MAY BURST. NFPA 30B RATING: 1.

Special Fire Fighting Procedures:

AEROSOL CANS MAY RUPTURE WHEN HEATED.

Extinguishing Media:

USE WATER FOG, DRY CHEMICAL OR CARBON DIOXIDE.

Flash Point:

-160 F TCC

Flammable Limits:

Lower Limit:

EXPLOSIVE LIMIT (LEL): 1.9

Upper Limit:

EXPLOSIVE LIMIT (UEL): 8.5

AutoIgnition Temperature:

General Information:

FLAMMABLE LIMITS: NO DATA

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

Disposal:

DISPOSE AS HAZARDOUS WASTE IN ACCORDANCE WITH EPA RCRA.

Spills/Leaks:

USE ABSORBENT SWEEPING COMPOUND TO SOAK UP MATERIAL. PUT INTO CONTAINER. DISPOSE AS HAZARDOUS WASTE.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Storage:

KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME. STORE AT TEMPERATURES BELOW 120 F.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

LOCAL EXHAUST: YES

MECHANICAL (GENERAL): NONE

SPECIAL VENTILATION: NONE

OTHER VENTILATION: NONE

Eyes:

WEAR EYE PROTECTION.

Skin:

PROTECTIVE GLOVES: NONE REQUIRED IF SPRAYING.

Clothing:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: LONG SLEEVE AND LONG PANTS.

Respirators:

(SPECIFY TYPE): SELF CONTAINED BREATHING APPARATUS IF ABOVE TLV LIMIT EXCEEDING.

****** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ********Appearance/Odor:**

YELLOW/SOLVENT

pH: NO DATA

Vapor Pressure: (MM HG.): PSIG @ 70 F: 40

Vapor Density: (AIR = 1): HEAVIER THAN AIR: 4.0

Evaporation Rate: (BUTYL ACETATE=1): LT 1

Viscosity:

Boiling Point: RANGE: -11.7 F TO 212 F

Freezing/Melting Point: MELTING POINT: NA

Decomposition Temperature:

Solubility: IN WATER: SOLUBLE

Specific Gravity: .9

Molecular Formula: N/A

Molecular Weight:

Miscellaneous:

% VOLATILE / VOLUME: NO DATA

****** SECTION 10 - STABILITY AND REACTIVITY ********Chemical Stability:**

STABLE: YES

Conditions to Avoid:

HIGH TEMPERATURES

Incompatibilities with Other Materials:

INCOMPATIBLE WITH STRONG OXIDIZERS, STRONG ALKALIES, ZINC, REACTIVE METALS, STRONG MINERAL ACID

.

Hazardous Decomposition Products:

IN FIRE, WILL DECOMPOSE TO CARBON DIOXIDE, WATER.

Hazardous Polymerization:

MAY OCCUR: NO

****** SECTION 11 - TOXICOLOGICAL INFORMATION ********Toxicological Information:**

CARCINOGENICITY: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CA CER.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecological Information:

**** SECTION 13 - OTHER PRECAUTIONS ****

Other Precautions:

WHEN SPRAYING MORE THAN ONE HALF CAN CONTINUOUSLY OR MORE THAN ONE CAN CONSECUTIVELY USE NIOSH APPROVED RESPIRATOR.

Work/Hygienic Practices:

DO NOT SMOKE WHILE USING. WASH HANDS AFTER USE.

**** SECTION 14 - TRANSPORT INFORMATION ****

Transportation Information:

CATEGORY: ORM-D

DOT SHIPPING - CONSUMER COMMODITY ORM-D

Label Information:

**** SECTION 15 - REGULATORY INFORMATION ****

Regulatory Information:

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

